One Month

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Giphy API & AJAX

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Week 2: DOM Manipulation · Lesson 15 ·

Lesson Notes   Discussion (13)

In your coding journey, a common task that you'll perform with your code is accessing APIs (Application Programming Interface). APIs provide a way for two applications to communicate with each other. You will most often use APIs to access some data or to integrate an application with your own. Our GIF search engine will be powered by the Giphy API. In this lesson, you'll learn how to make AJAX requests to an API and get data back from it. Ajax, short for Asynchronous JavaScript and XML, refers to a set of web development techniques used widely in client-side programming (e.g. JavaScript) that enable data to be sent and received to and from a database/server.

Resources

https://api.giphy.com/

Basic AJAX Call

```
var url = "THE_URL_TO_CALL_GOES_HERE";

// AJAX Request
var GiphyAJAXCall = new XMLHttpRequest();
GiphyAJAXCall.open( 'GET', url );
GiphyAJAXCall.send();



GiphyAJAXCall.addEventListener('load', function( data ) {

// your callback events go here

});
```

Adding to *main.js*

```javascript
/* 1. Grab the input value */


document.querySelector(".js-go").addEventListener('click',funct

  var input = document.querySelector("input").value;
  console.log(input);
  pushToDOM(input);


});


document.querySelector(".js-userinput").addEventListener('keyup

  var input = document.querySelector("input").value;
  console.log(input);

  // if the key ENTER is pressed...
  if(e.which === 13) {
    pushToDOM(input);
  }

});

/* 2. do the data stuff with the API */

var url = "http://api.giphy.com/v1/gifs/search?q=funny+cat&api_

// AJAX Request
var GiphyAJAXCall = new XMLHttpRequest();
GiphyAJAXCall.open( 'GET', url );
GiphyAJAXCall.send();

GiphyAJAXCall.addEventListener('load',function(e){

  var data = e.target.response;
  console.log(data);

});

/* 3. Show me the GIFs */

function pushToDOM(input) {

  var container = document.querySelector(".js-container");
```

```
    container.innerHTML = input;


}
```

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